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were surveyed, and land registers, recording the area, and ownership of each property, were prepared. One-third of the country was mapped on the scale of 1:4,000, two-thirds, including all the more fertile districts, on the scale of 1:2,500 and nearly all these maps have now been published. The cadastral survey has been completed, and the present report records in considerable detail the progress and methods of the work with statistical information that may be instructive to surveyors, both in Egypt and elsewhere. The maps, diagrams, and other illustrations are numerous.

II Ruwenzori. Parte Scientifica. Risultati delle Osservazioni e Studi compiuti sul Materiale Raccolto dalla Spedizione. Two Vols. Vol. I. Zoologia. Prof. L. Camerano and others; Botanica. Dott. E. Chiovenda e Cortesi and others. vii and 603 pp., and 74 pp. of Illustrations; Vol. II. Geologia. Prof. A. Roccati; Petrografia e Mineralogia. Prof. A. Roccati, Prof. Luigi Colombo and Prof. G. Piolti. xix and 286 pp., Geognostic Map of Uganda, and 40 pages of Illustrations. Ulrico Hoepli, Milan, 1909. Price, 50 Lire.

Very few societies could afford the sum for the printing of scientific results that the Duke of the Abruzzi has expended on these two sumptuous volumes. The collections made by his expedition to the Ruwenzori Mts. were placed in the hands of Italian specialists. Thirteen of them worked out and describe, in Vol. 1, the zoological results. The botanical work was distributed among eight scholars. Vol. 2 gives 164 pp. to geology and the text concludes with the discussion of the petrographic and mineralogical results. The first volume adds considerably to our knowledge of the natural history and botany of the western part of British East Africa and the second is one of the most important contributions yet made to the study of the geology of Equatorial Africa. The numerous plates have rarely been equalled in African photography.

Die Weltumsegelfahrten des Kapitäns James Cook. Ein Auszug aus seinen Tagebüchern. Bearbeitet und übersetzt von Dr. Edwin Hennig. 554 pp., 1 Map, and 8 Illustrations. Gutenberg-Verlag, Hamburg, 1908. Price, M. 6.

An excellent selection of material from Capt. Cook's own story of his famous voyages and discoveries. This is Vol. 1 of the "Bibliothek denkwürdiger Reisen" which is being issued under the editorship of Dr. Ernst Schultze. Dr. Hennig has made a good translation and his selections give an idea of the great explorer's contributions to geographical knowledge. The readable character of the English narrative is well preserved.

Kulturpflanzen der Weltwirtschaft. Unter Mitwirkung erster Fachleute herausgegeben von Otto Warburg und J. E. van Someren Brand. xiv and 411 pp., 653 Photographic Reproductions and 12 Illustrations in Colors. R. Voigtländer's Verlag, Leipzig. Price, 20 Marks.

One of the best books that has been given to the exposition of agricultural industries. The work describes the cultivation and preparation for market of rice, wheat, maize, sugar, wine, coffee, tea, cacao, tobacco and cotton. In the chapter on tobacco, for example, the history of the plant and of its distribution is given and the phases of production, and manufacture in various countries are

depicted in text and illustrations. The chapter gives a comprehensive view of the importance of tobacco in all countries where it is produced, manufactured and consumed. The text is intended for all intelligent readers and its interest is emphasized by the extraordinary number of photographic reproductions and of pictures in colors, one or more of which appear on every page. Mr. Warburg, one of the editors of the work, is well known as an authority on tropical agriculture and the editor of *Der Tropenpflanzer*, Berlin.

Text-Book of Petrology. By F. H. Hatch. Fifth Edition. xvi and 404 pp. and Illustrations. Swan, Sonnenschein & Co., London, 1909. \$1.90.

The fifth edition of this text-book on the petrology of the igneous rocks has been so much enlarged that it contains, approximately, three times as much material as the first edition which appeared eighteen years ago. With its more numerous illustrations, more complete lists of chemical analyses, and fuller references to the literature of petrology, the present edition deserves to be classed among the best of the smaller text-books on the subject.

The author divides the book into four parts, the first of which deals with "the physical characters of the igneous rocks." The modes of occurrence of igneous rocks are described briefly under such paragraph headings as Stocks, Dykes, Laccoliths, Necks, etc.; columnar and other types of joint structure, flow structure, and other features of "External structure" are treated in a short chapter; while texture or micro-structure, and composition, both chemical and mineralogical, receive a more extended treatment in the two following chapters.

Part II deals with "the constituent minerals of the igneous rocks," discussing several bases of classification and presenting in the first chapter in tabular form, a classification of the more important minerals. In the second chapter certain optical properties of minerals as seen in thin sections are discussed; chapter three is devoted to the detailed description of the rock-forming minerals.

Part III considers "the classification of igneous rocks" under the three chapter headings: Plutonic Rocks, Hypabyssal Rocks, and Volcanic Rocks. Further classification is based on the silica content, with the alkali and calc-alkali contents as a basis for still further subdivision. In Part IV the "distribution of the igneous rocks as illustrated by the British Isles" is treated in three chapters, while a table for the determination of rock-making minerals in thin sections, by R. H. Rastall and J. Romanes, is given in an appendix.

D. W. JOHNSON.

CURRENT GEOGRAPHICAL PAPERS

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United States

ABENDANON, DR. J. H. L'enseignement des indigènes de l'Alaska, des Indiens